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RAW SEQUENCE LISTING PATENT APPLICATION US/09/220,617

DATE: 02/04/1999 TIME: 12:31:37

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This Raw Listing contains the General Information Section and up to the first 5 pages.

ENTERED SEQUENCE LISTING 1 2 3 (1) General Information: 4 (i) APPLICANT: JOHNSON, EUGENE M 5 MILBRANDT, JEFFREY D 6 7 KOTZBAUER, PAUL T LAMPE, PATRICIA A 8 KLEIN, ROBERT 9 DESAUVAGE, FRED 10 11 (ii) TITLE OF INVENTION: PERSEPHIN AND RELATED GROWTH FACTOR 12 13 (iii) NUMBER OF SEQUENCES: 239 14 15 16 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: HOWELL & HAFERKAMP, L.C. 17 (B) STREET: 7733 FORSYTH BOULEVARD, SUITE 1400 18 (C) CITY: ST. LOUIS 19 20 (D) STATE: MO (E) COUNTRY: USA 21 (F) ZIP: 63105 22 23 24 (v) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk 25 (B) COMPUTER: IBM PC compatible 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 28 29 (vi) CURRENT APPLICATION DATA: 30 (A) APPLICATION NUMBER: 09/220,617 31 (B) FILING DATE: (C) CLASSIFICATION: 435 (vii) PRIOR APPLICATION DATA: 35 (A) APPLICATION NUMBER: US/08/931,858 37 (B) FILING DATE: 38 (viii) ATTORNEY/AGENT INFORMATION: 39 (A) NAME: HOLLAND, DONALD R. 40 41 (B) REGISTRATION NUMBER: 35,197 (C) REFERENCE/DOCKET NUMBER: 6029-1486 42 43 (ix) TELECOMMUNICATION INFORMATION: 44 (A) TELEPHONE: 314-727-5188 45 (B) TELEFAX: 314-727-6092 46

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56 57 58 59		(ii)	MOLE	CULE	TYP	E: F	rote	ein									
60 61		(xi)	SEQU	JENCE	E DES	CRI	OITS	1: SI	EQ II	010	:1:						
62 63 64		Ala 1	Arg	Leu	Gly	Ala 5	Arg	Pro	Cys	Gly	Leu 10	Arg	Glu	Leu	Glu	Val 15	Arg
65 66 67 68 69		Val	Ser	Glu	Leu 20	Gly	Leu	Gly	Tyr	Ala 25	Ser	Asp	Glu	Thr	Val 30	Leu	Phe
70 71 72 73		Arg	Tyr	Cys 35	Ala	Gly	Ala	Cys	Glu 40	Ala	Ala	Ala	Arg	Val 45	Tyr	Asp	Leu
74 75		Gly	Leu 50	Arg	Arg	Leu	Arg	Gln 55	Arg	Arg	Arg	Leu	Arg 60	Arg	Glu	Arg	Val
76 77 78		Arg 65	Ala	Gln	Pro	Cys	Cys 70	Arg	Pro	Thr	Ala	Tyr 75	Glu	Asp	Glu	Val	Ser 80
79 80 81		Phe	Leu	Asp	Ala	His 85	Ser	Arg	Tyr	His	Thr 90	Val	His	Glu	Leu	Ser 95	Ala
82 83 84		Arg	Glu	Cys	Ala 100	Cys	Val										
85 86	(2)	INFO	RMAT	ION :	FOR :	SEQ	ID N	0:2:									
87 88 89 90 91 92 93		(i)	(A (B (C	UENC:) LE:) TY:) ST:) TO	NGTH PE: RAND	: 10 amin EDNE	0 am o ac SS:	ino id	S: acid	s							
94 95 96 97		(ii)	MOL	ECUL	E TY	PE:	prot	ein									
98 99		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	D NO	:2:						

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106		Cys	Ala	Gly	Ala	Cys	Glu	Ala	Ala	Ile	Arg	Ile	Tyr		Leu	GIA	Leu
107				35					40					45			
108																	
109		Arg	Arg	Leu	Arg	Gln	Arg	Arg	Arg	Val	Arg	Arg	Glu	Arg	Ala	Arg	Ala
110			50		_			55					60				
111																	
112		His	Pro	Cys	Cvs	Ara	Pro	Thr	Ala	Tvr	Glu	Asp	Glu	Val	Ser	Phe	Leu
113		65		0,70	-1-	5	70			-		75					80
		0.5										-					
114		3	170]	His	002	7~~	Тч гх	uie	Thr	T.011	Gln	Glu	T.e.ii	Ser	Δla	Ara	Glu
115		Asp	val	HIS	Ser		IYL	nis	1111	пец	90	0.44	u	501		95	
116						85					90					,,	
117				_	3												
118		Cys	Ala	Cys													
119					100												
120																	
121	(2)	INFO	RMAT:	ION I	FOR :	SEQ :	ID N	0:3:									
122																	
123		(i) SEQUENCE CHARACTERISTICS:															
124			(A) LEI	NGTH	: 16	ami	no a	cids								
125		(A) LENGTH: 16 amino acids (B) TYPE: amino acid															
126			(C) STI	RAND	EDNE	ss:										
127			(D) TO	POLO	GY:	line	ar									
128			,-	,													
129		(ii) MOLECULE TYPE: peptide															
130		(ii) MOLECULE TYPE: peptide															
131																	
		(ix)	יאש	ים סוויי													
132		(TX)) NAI		ev. 1	Mod i	fied	_ a i + :	_							
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136																	
137																	
138		(xi)	SEQ	UENC	E DE	SCRI	PTIO	N: S	EQ I	סא ט	: 3:						
139									_	_		_				**- *	G
140		Ser	Gly	Ala													ser
141		1				5					10					15	
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144	(2)	INFO	RMAT	ION :	FOR	SEQ	ID N	0:4:									
145	, -,					_											
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151					m m.												

(ii) MOLECULE TYPE: peptide

152

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153
154
          (ix) FEATURE:
155
                (A) NAME/KEY: Modified-site
156
                (B) LOCATION: 1
157
                (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
158
159
          (ix) FEATURE:
160
                (A) NAME/KEY: Modified-site
161
                 (B) LOCATION: 6
162
                (D) OTHER INFORMATION: /note= "SERINE OR CYSTEINE"
163
164
165
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
166
167
           Xaa Cys Ala Gly Ala Xaa Glu Ala Ala Val
168
                            5
169
170
      (2) INFORMATION FOR SEQ ID NO:5:
171
172
           (i) SEQUENCE CHARACTERISTICS:
173
                 (A) LENGTH: 23 amino acids
174
                 (B) TYPE: amino acid
175
                 (C) STRANDEDNESS:
176
                 (D) TOPOLOGY: linear
177
178
179
          (ii) MOLECULE TYPE: peptide
180
181
          (ix) FEATURE:
182
                 (A) NAME/KEY: Modified-site
183
                 (B) LOCATION: 1
184
                 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
185
186
          (ix) FEATURE:
187
                 (A) NAME/KEY: Modified-site
188
                 (B) LOCATION: 2
189
                 (D) OTHER INFORMATION: /note= "ANY AMINO ACID"
190
. 191
192
           (ix) FEATURE:
                 (A) NAME/KEY: Modified-site
193
194
                 (B) LOCATION: 17
                 (D) OTHER INFORMATION: /note= "GLUTAMINE OR GLUTAMIC ACID"
195
196
197
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
198
199
           Xaa Xaa Val Glu Ala Lys Pro Cys Cys Gly Pro Thr Ala Tyr Glu Asp
200
201
202
           Xaa Val Ser Phe Leu Ser Val
203
                       20
204
205
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216																	
217																	
218		(xi)	SEQ	UENC:	E DE	SCRI	PTIO	N: S	EQ I	D NO	:6:						
219																	
220		Tyr	His	Thr	Leu	Gln	Glu	Leu	Ser	Ala	Arg						
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223	(2)	INFO	RMAT	TON :	FOR :	SEO :	TD N	0:7:									
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236																	
237		Met	Gln	Arg	Trp	Lys	Ala	Ala	Ala	Leu	Ala	Ser	Val	Leu	Cys	Ser	Ser
238		1				5					10					15	
239																	
240		Val	Leu	Ser	Ile	Trp	Met	Cys	Arg	Glu	Gly	Leu	Leu	Leu	Ser	His	Arg
241					20	_		_	_	25	_				30		_
242																	
243		Leu	Glv	Pro	Ala	Leu	Val	Pro	Leu	His	Arg	Leu	Pro	Arq	Thr	Leu	Asp
244			1	35					40					45			•
245				-													
246		Δla	Ara	T1e	Δla	Δrα	T.em	Δla	Gln	Tyr	Δτα	Δla	Len	Leu	Gln	Glv	Ala
247		ALG	50	110	AΙα	a	Dea	55	0111	- 7 -	9	7114	60		0111	0-7	
248			50					-					•				
249		Dro	7 00	717	Mot	C1	Leu	7~~	Clu	T.011	Th~	Dro	Trans	71-	Glaz	720	Pro
			Asp	Ald	Met	GIU		Arg	GIU	Беп	1111		пр	Ala	GIY	Arg	
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251		_		_	_	_	_			_	_			_		-	
252		Pro	GLY	Pro	Arg		Arg	Ala	GIY	Pro		Arg	arg	Arg	АТА		Αта
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255		Arg	Leu	Gly	Ala	Arg	Pro	Cys	Gly	Leu	Arg	Glu	Leu	Glu		Arg	Val
256					100					105					110		
257																	
258		Ser	Glu	Leu	Gly	Leu	Gly	Tyr	Ala	Ser	Asp	Glu	Thr	Val	Leu	Phe	Arg
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Wrong Classification

(C) CLASSIFICATION:435